**NUMBERS, OPERATIONS AND RELATIONSHIPS**

Grade 6 Mathematics Term 2 2020

**Whole numbers**: counting, ordering, comparing, representing and place value.

**1.**Fill in the missing numbers

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 221 **400** | 1 221 **600** | 1 221 **800** |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 13 478 821 | 13 478 831 |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 489 537 210 |  | 689 537 230 |  |  |

**2.** Write the numbers in **expanded notation.**

**Example** 56 987 = 50 000 + 6 000 + 900 + 80 +7

**a.** 133 555 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**b.** 2 369 876 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**c**. 2 369 876 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**d.** 4 032 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3.**What is the **number value** of the underlined digits?Find the **sum.**

**a**. 789 **9**6**6900 + 6**= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**b.**What is the value of the **difference** between the underlined numbers?**900 -6 = \_\_\_\_\_\_**

**4**. **Write the following in numbers.**

**Example: Two** millionsix thousandnine hundred and seventy two = **2 006 972**

**a.** One hundred and fifty five thousand and twenty two = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**b.**Seventeen thousandeight hundred and ninety nine = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**c.** Five millionfour hundred thousandfive hundred and sixty = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5.Write these numbers into the table**.**a**783 456 321 **b**908 364 758 **c**34 185 679 **d**397 856

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Hm** | **Tm** | **M** | **Hth** | **Tth** | **Th** | **H** | **T** | **U** | **Number** |
| **a** | 7 | 8 | 3 | 4 | 5 | 6 | 3 | 2 | 1 | =783 456 321 (**Example)** |
| **b** |  |  |  |  |  |  |  |  |  | = |
| **c** |  |  |  |  |  |  |  |  |  | = |
| **d** |  |  |  |  |  |  |  |  |  | = |

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**Whole numbers**: counting, ordering, comparing, representing and place value.

**1**.Round off to the **nearest 5**

**Examplea.56 ≈ 55b**981 ≈ \_\_\_\_\_\_\_\_\_\_ **c** 1 666 ≈ \_\_\_\_\_\_\_\_\_\_\_\_ **d** 12 984 ≈ \_\_\_\_\_\_\_\_\_\_

**2**. Round off to the **nearest 10**

**Example a 67 ≈ 70 b** 99 ≈ \_\_\_\_\_\_\_\_\_\_ **c** 91 786 ≈ \_\_\_\_\_\_\_\_\_\_\_**d** 331 542 ≈ \_\_\_\_\_\_\_\_\_\_

**3.** Round off to the **nearest 100**

**Example a 8 722 ≈ 8 700 b** 12 433 ≈ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**c** 78 667 ≈ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **d** 33 322 ≈ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.** Round off to the **nearest 1000**

**Example a 6 978 ≈ 7 000b** 12 455 ≈ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**c** 66 988 ≈ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **d** 2 456 ≈ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5**. Round off as required.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Round off to the nearest** | **5** | **10** | **100** | **1 000** |
| 343 467 |  |  |  |  |
| 21 345 912 |  |  |  |  |
| 398 349 345 |  |  |  |  |

**6**.What is the **value** of the underlined digits?

**Example a 354 678 921 - 900b** 89 73**5** 246 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**c** 7 8**3**2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **d** 2**2** 847 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**7**.What is the **place value**of the underlined digits?

**a 354 678 921 - ten millionb** 89 735 **2**46 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**8.** Write the following set of numbers in **ascending order**[smallest to biggest]

234 987; 123 987;  745 987;  675 987; 765 987

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**9**. Write the following set of numbers in **descending order**. [Biggest to smallest]

345 766; 133 766; 723 766; 666 766; 872 766

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

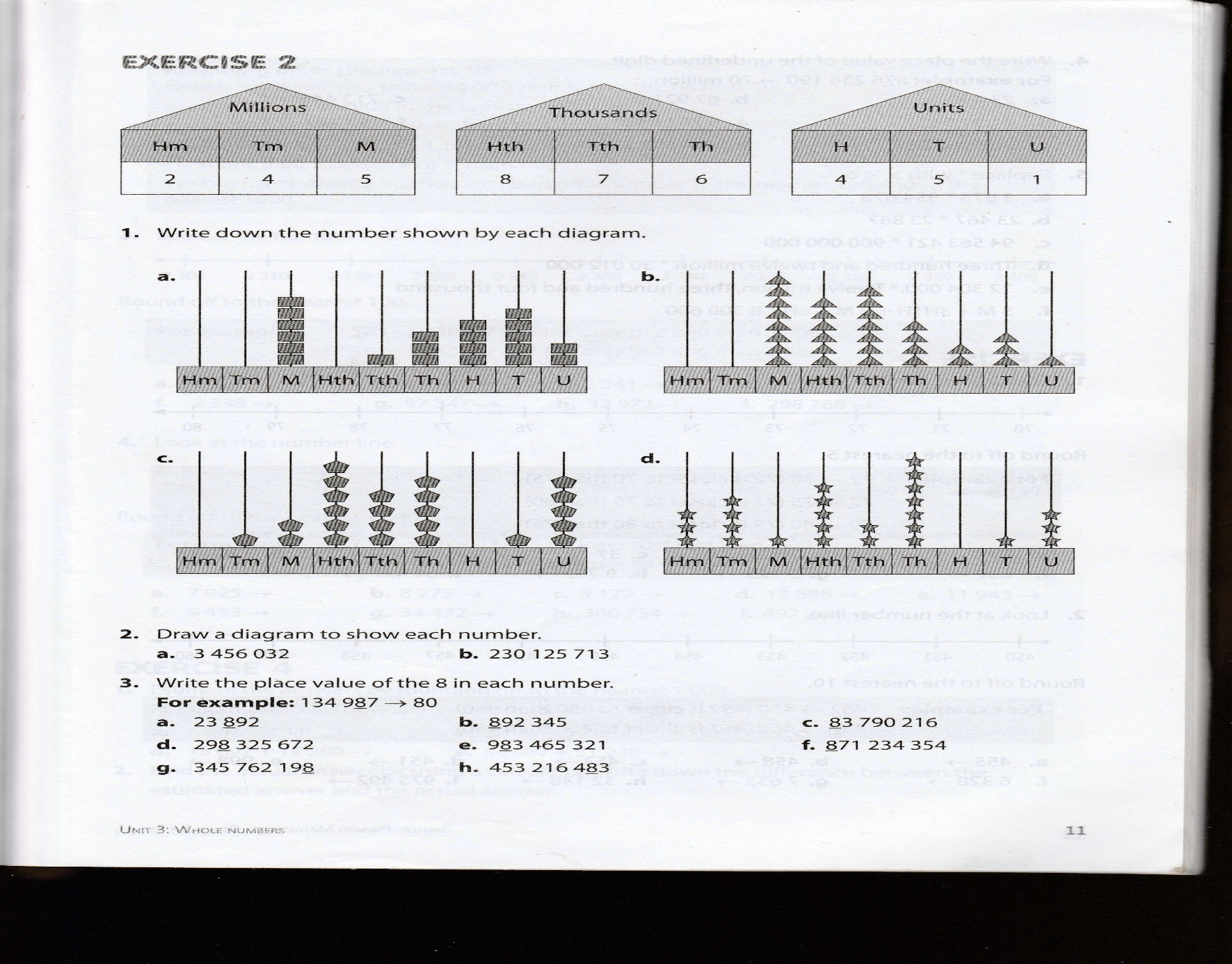
**10.**List the **prime numbers** between **50 and 100** in **descending order.**

**97; 89\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**(Remember the number may only be divisible by 1 and itself.}**

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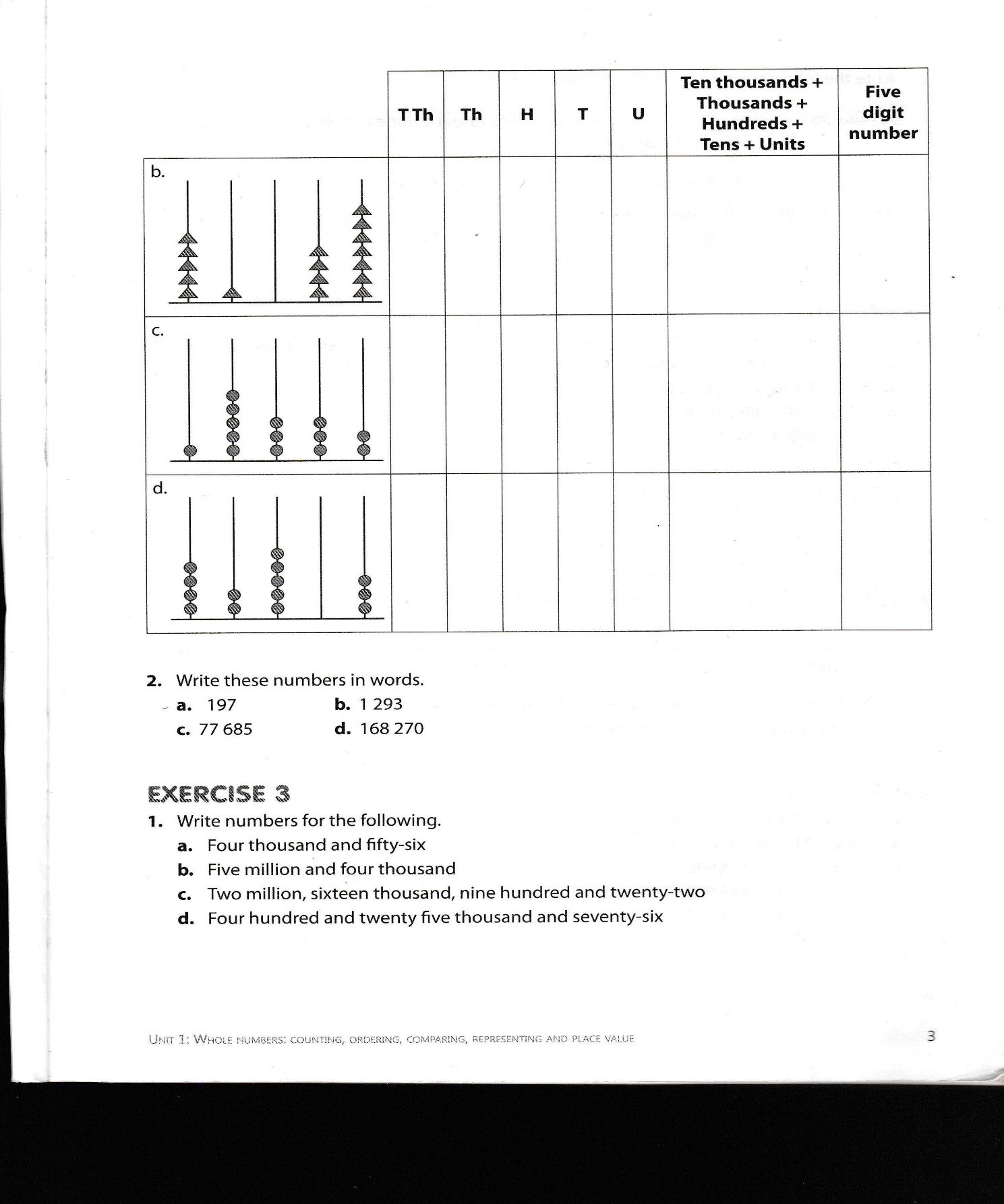
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**2. Show this number on the diagram below. 230 125 713**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Hm | Tm | M | Hth | Tth | Th | H | T | U |

**3. Complete the following table**



**In words**

a

b

c